installation guide

Smart Tru-Universal Dimmer

with HomeKit Technology

Room .....

HKRL50

Works with Apple HomeKit

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before you start

Review this guide in its entirety before beginning device installation. Consult an electrician with any questions or if you are unsure of your abilities.

⚠ **Warning:** Incorrect installation could result in death, serious injury, and/or damage to your home or devices.

⚠ **Caution:** To reduce the risk of injury and/or overheating and damage to other equipment:

- For dry, indoor use only.
- Use ONLY with dimmable lighting loads.
- Do not use to power medical equipment.
- Do not use with loads exceeding the device load rating (see page 24).
- Connect the smart dimmer to a 120 VAC, 60 Hz power source ONLY.
- Always use copper wire to install the smart dimmer and follow all applicable local and national electrical codes.
- Install in a non-metallic electrical box to protect wireless signal strength.

Visit the Legrand website at www.legrand.us/radiant/homekit.aspx to learn more about your smart device.

what you need

REQUIRED:

- Phillips-head screwdriver
- Flat blade screwdriver

YOU MAY ALSO NEED:

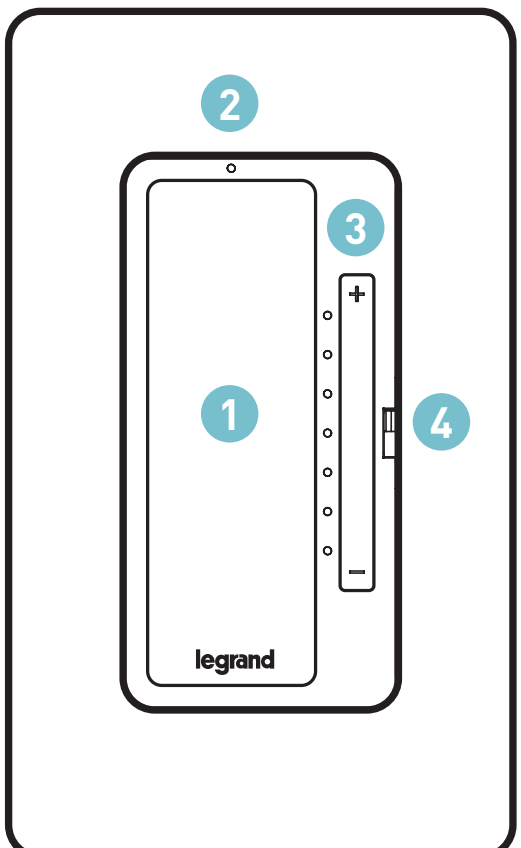
Non-contact voltage tester, pliers, wire cutter, wire stripper, electrical tape, flashlight, radiant® screwless wallplate (included), wiring leads (included), and wire nuts (included)

NOTE: *Exercise caution when using power tools. Overtightening the screws can damage the device.*



getting to know your dimmer

Item	Name	Description
1	Paddle Switch	• Press the top of the paddle to turn the light on or double-tap to raise the dimming percentage to 100%. • Press the bottom of the paddle to turn the light off. • To return the dimmer to factory default, press and hold the top of the paddle for 15 seconds. Then, remove the device from the Legrand Home app (or Apple Home app).
2	LED Locator Light	Indicates the current state of the device. Refer to "LED Locator Light Explanations" for detail.
3	Dimmer Paddle and LED Light Level	Controls and displays the dimming level: • Press (+/-) to adjust the dimming level incrementally. • Press and hold (+/-) to quickly change the dimming level.
4	Air Gap Switch	Completely turns off the dimmer. Use when changing light bulbs.



LED LOCATOR LIGHT EXPLANATIONS

LED Color	State of Light	Explanation
	Slowly Flashing Amber	Device is attempting to connect to the network
	Solid White	Connected to Wi-Fi and turned off
	No Light	Device is on
	Rapidly Flashing Amber	N-Way Pairing mode: device is ready to pair with the remote(s)
	Flashing Red	Warns of a shutdown or short circuit

NOTE: *When it is turned on, the dimmer recalls the most recent dimming level.*

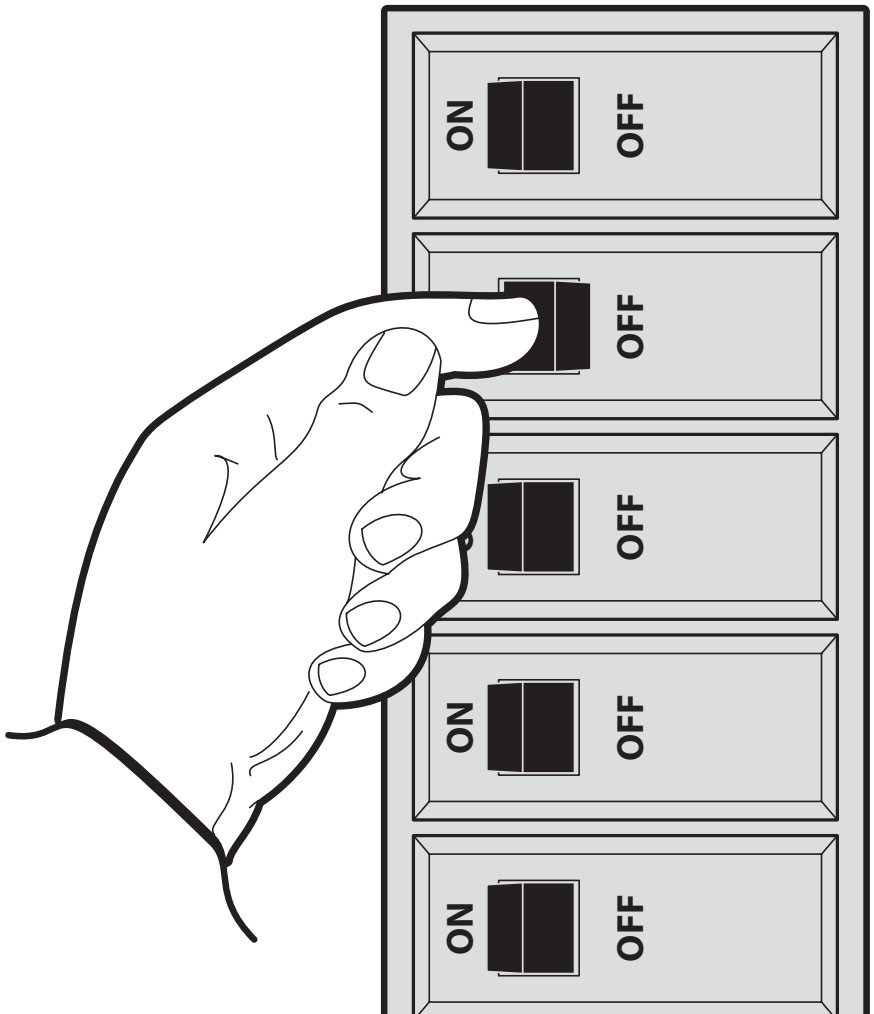
installation & setup

step one | turn off the power for your device at the circuit breaker

Flip the existing light switch multiple times to confirm the power is off.

NOTES:

- *If there are multiple devices next to your existing light switch, make sure power is off at the circuit breaker for all of those devices.*
- *For multi-way installations using a remote dimmer, follow the instructions for the remote device (HKRL60).*


ON
OFF
OFF
OFF
ON
OFF
ON
OFF

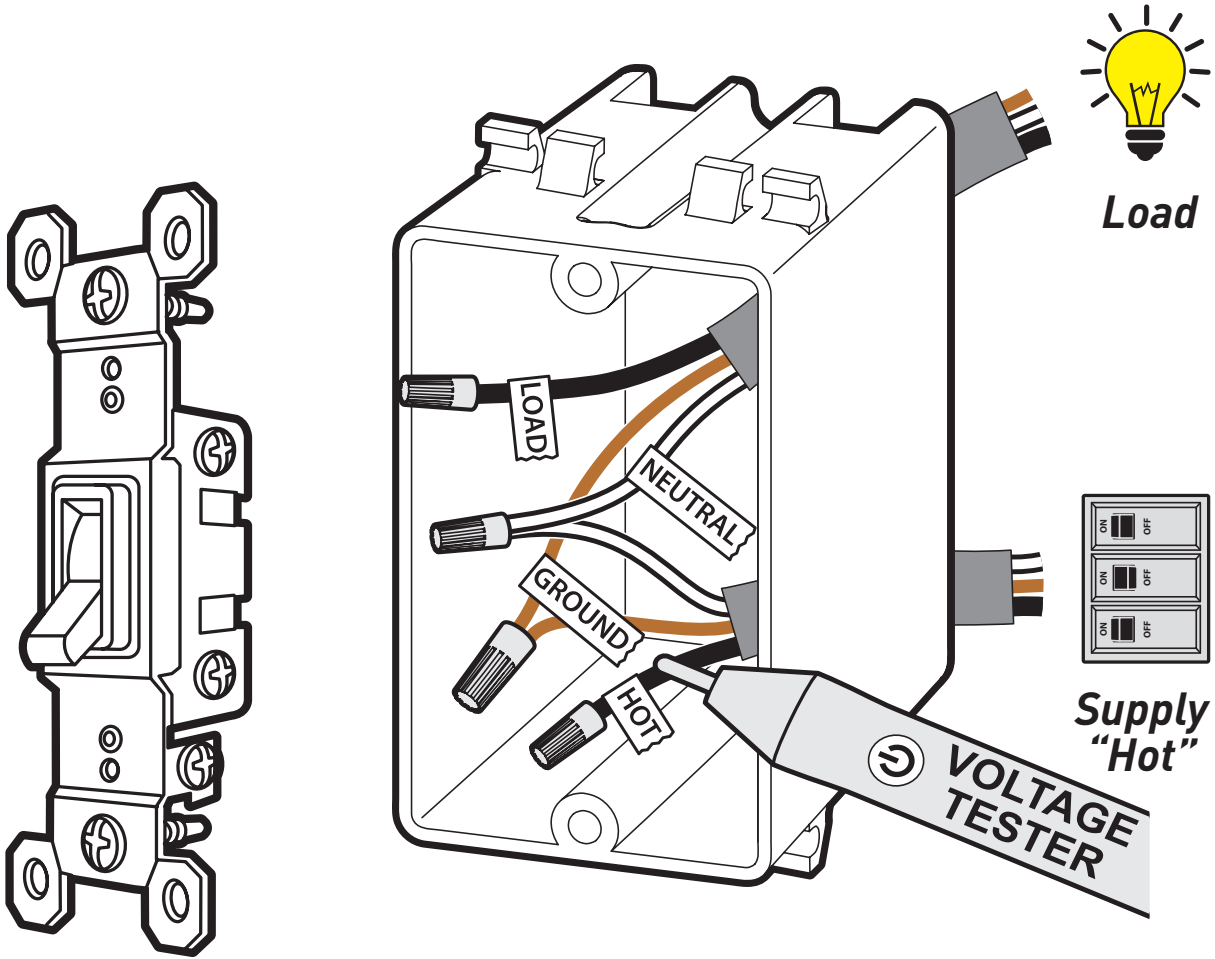
installation & setup

step two | remove the existing device

Check for the following wires:

1. HOT or LINE: Receives power from the circuit box. Referred to as “hot” for the purposes of this guide. Do not touch or let “hot” wires contact other wires.
2. LOAD: Directs power to your light(s).
3. NEUTRAL: Creates a path to return current to the power source when the device is off. Required for your dimmer installation.
4. GROUND: Provides a safe path for electricity in the event of a short circuit.

NOTE: *Refer to the “faqs” on page 28 if you are unsure of your wiring.*


Load
LOAD
NEUTRAL
GROUND
HOT
VOLTAGE TESTER
Supply "Hot"

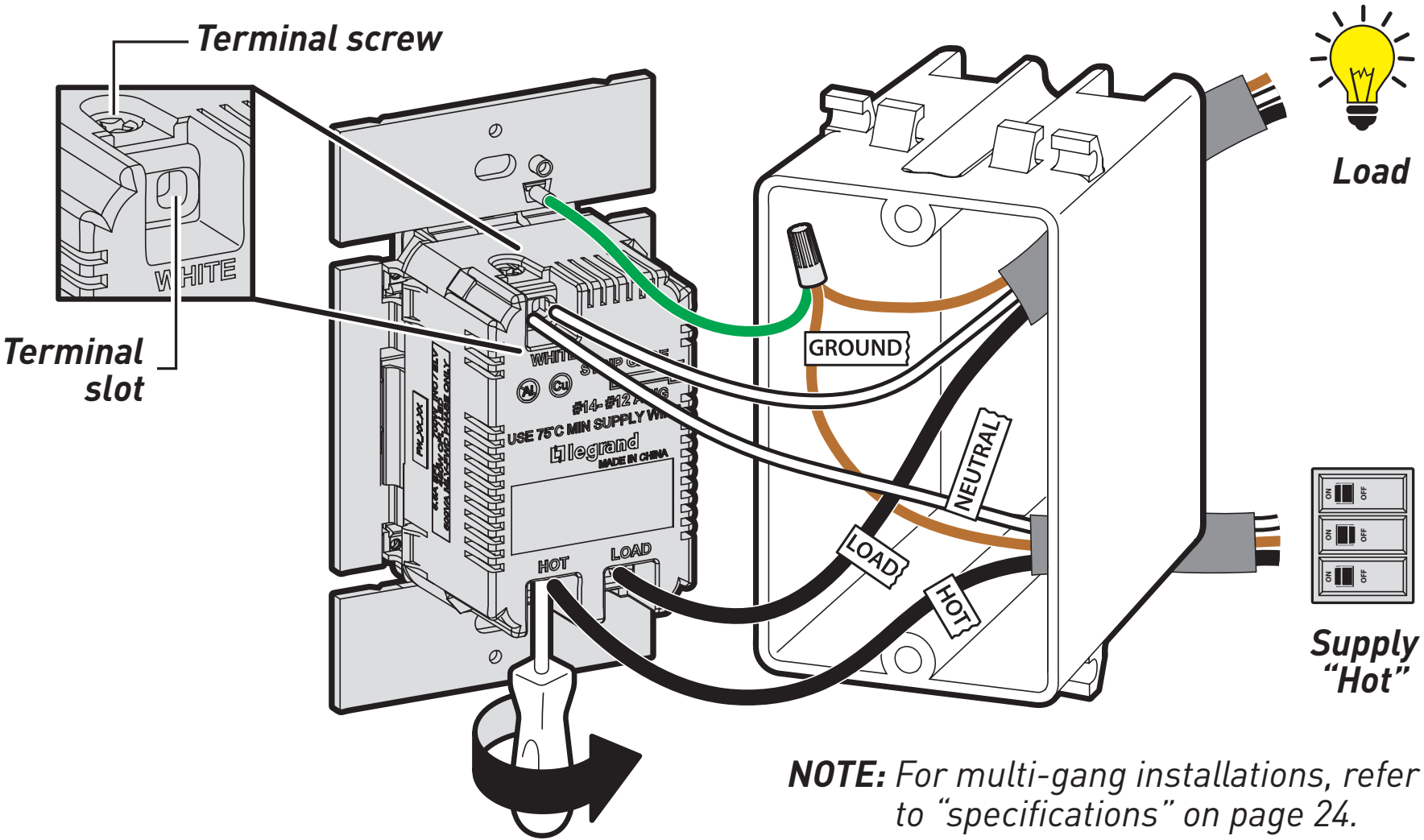
installation & setup

step three | wire the smart dimmer

When connecting each wire, loosen the terminal screw, insert the wire into a terminal slot, and tighten the terminal screw until the wire is secured.

1. Connect the neutral wires to the WHITE terminal slots.
2. Connect the load wire to any LOAD terminal slot.
3. Connect the hot wire to any HOT terminal slot.
4. Connect the ground wire to the green wiring lead on the device. Use a wire nut to secure the wires together.

NOTE: *If you need extra length on your wires, wire leads are included in your packaging. Cap any unused wires from the wall using the included wire nuts.*



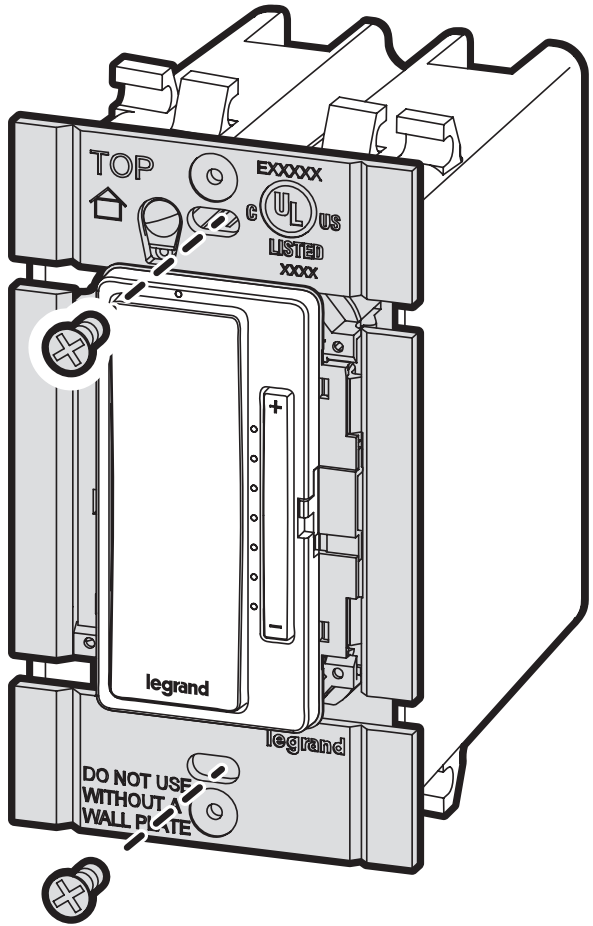
NOTE: *For multi-gang installations, refer to "specifications" on page 24.*

installation & setup

step four | secure the smart dimmer

1. Gently fold the wires into the electrical box. Be careful not to pinch a wire or loosen any wire nuts.

2. Use the device screws to secure the smart dimmer to the electrical box. Do not fully tighten the screws.


TOP
EXXXXX
c UL us
LISTED
XXXX
+
–
legrand
legrand
DO NOT USE
WITHOUT A
WALL PLATE

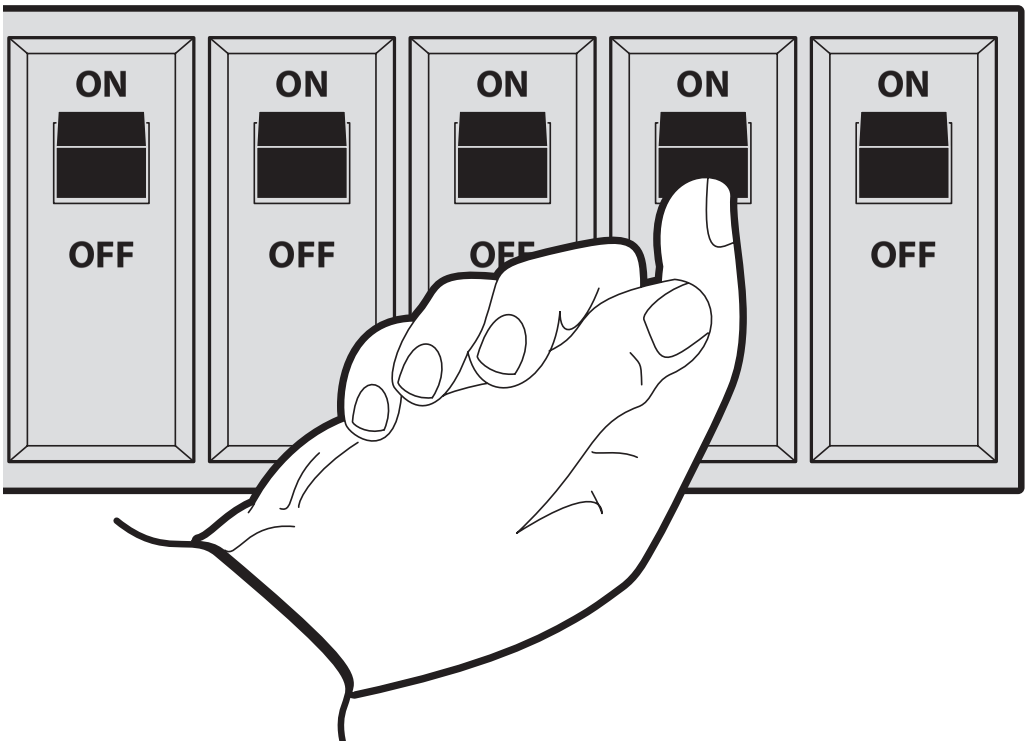
installation & setup

step five | test the smart dimmer

NOTE: *See page 6 for feature details.*

1. Turn the power back on at the circuit breaker.
2. Press the paddle switch to turn your light on and off.
3. Use the dimmer paddle to adjust the level of your light(s).

TROUBLESHOOTING TIP:
If the device is not powering, reference the "faqs" on page 28 to determine if you have reversed the "hot" and "load" wiring.


ON
ON
ON
ON
ON
OFF
OFF
OFF
OFF

installation & setup

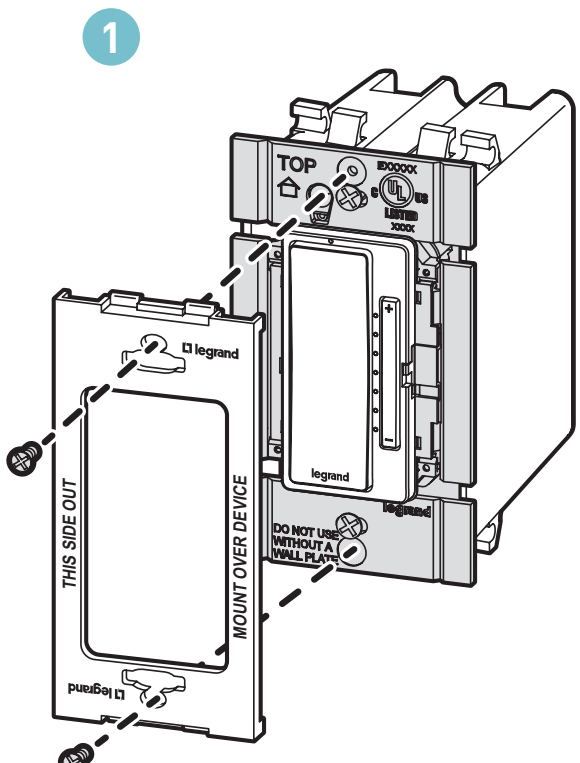
step six | attach the screwless wall plate

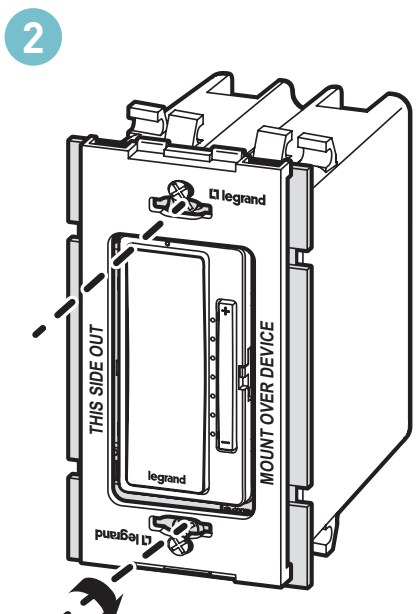
1. Noting which side faces out, align the sub-plate over the device screws. Use the sub-plate screws (provided) to secure the sub-plate to the smart dimmer.

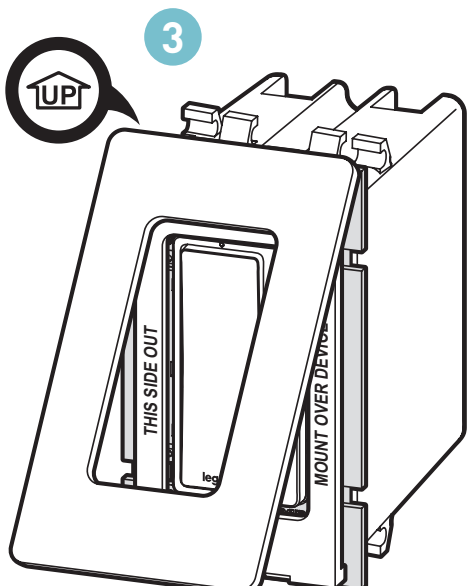
2. Tighten the device screws to secure the smart dimmer to the electrical box.

3. Angle the UP end of the screwless wall plate over the top edge of the sub-plate. Push the screwless wall plate down and in until it "snaps" into place over the sub-plate.

NOTE: *To remove the wall plate, place the tip of a flat blade screwdriver into the slot under the wall plate and twist gently.*


1
TOP
legrand
THIS SIDE OUT
MOUNT OVER DEVICE
DO NOT USE WITHOUT A WALL PLATE


2
legrand
THIS SIDE OUT
MOUNT OVER DEVICE


3
UP
THIS SIDE OUT


10:09
Search
Edit
Smith Home
Favorite Accessories
Bedroom Floor Lamp
Off
Bedroom Heater
Off
Living Room HomePod
Paused

installation & setup

step seven | set up your system

1. Connect your iPhone or iPad (iOS 11 or later) to a 2.4 GHz Wi-Fi® network using your router utility software.
2. Download and open the free Apple Home app from the App Store.
3. Tap the "+" at the top right corner of the screen. Follow the in-app directions to complete your device setup. When asked to scan your HomeKit Setup Code, scan the QR code on your device. A copy of the QR code is also located on the front cover of the booklet provided with the device. If you're having trouble scanning the code, you can manually enter the code found on the label.

NOTE: *If you're having trouble adding the accessory to your Home,* *refer to "faqs" on page 15.*

installation & setup

4. Follow the in-app directions to assign a name to your device and add it to a room. You can set up customized scenes that control multiple devices with a single command.

5. To add more devices or repeat the setup process, tap "+" on the Home page.

NOTE: *Your product natively works with Siri after setup, but integration options are also available for your Alexa or Google Assistant. Reference the appropriate user guide for your voice assistant, by visiting one of the following sites:*
http://legrand.us/radiant/homekit/siri
http://legrand.us/radiant/homekit/alexa
http://legrand.us/radiant/homekit/google

PERMISSION REQUIREMENTS

The use of a HomeKit-enabled accessory requires the following permissions:

- Settings> iCloud > iCloud Drive> Turn On
- Settings> iCloud > Keychain > Turn On
- Settings> Privacy > HomeKit > Legrand Home> Turn On

For troubleshooting visit https://www.legrand.us/support/onq.aspx.

Keep your individual HomeKit Setup Code in a secure area.
The code is unique to your device.

App Store is a service mark of Apple Inc., registered in the U.S. and other countries. Use of the Works with Apple HomeKit logo means that an electronic accessory has been designed to connect specifically to iPod touch, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

specifications

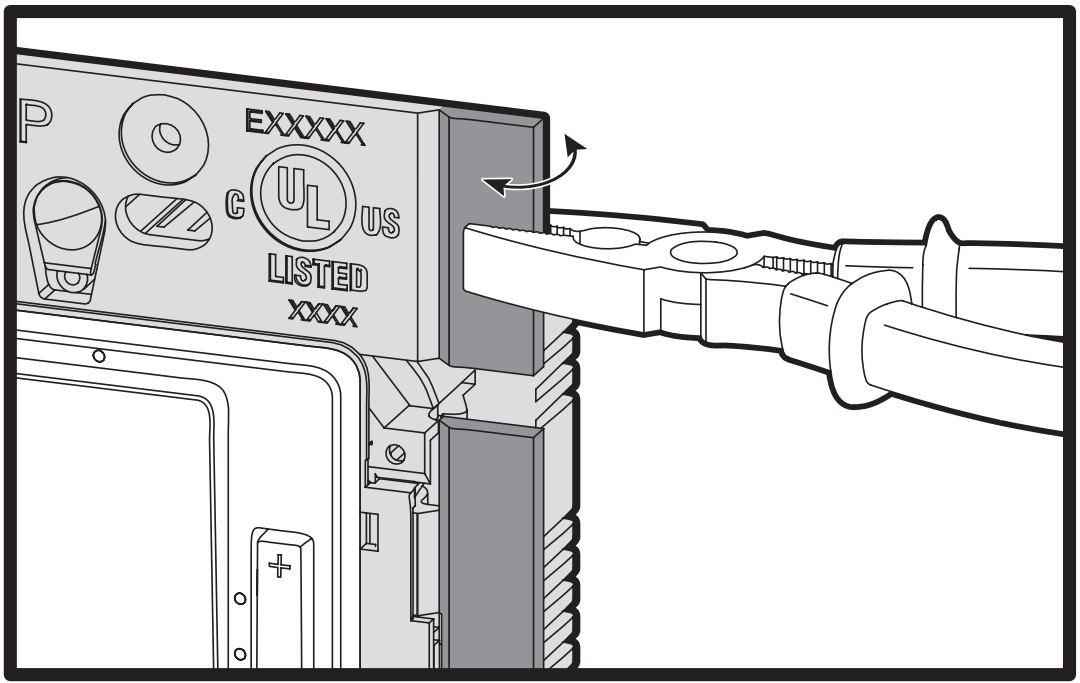
Use the rating chart below when installing the dimmer in a multi-gang electrical box.

DE-RATING CHART

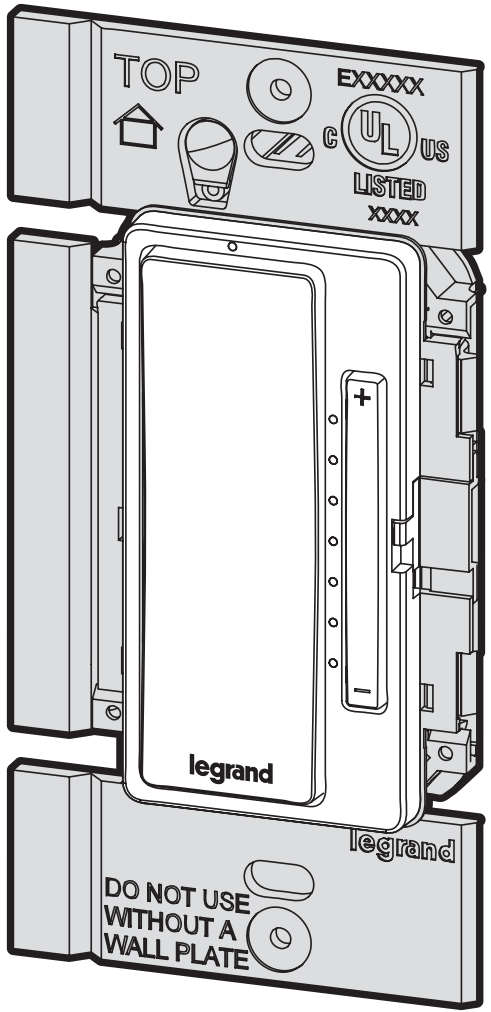
Load	Single-Gang	Dual-Gang	Three-Gang
Incandescent/Halogen	700 W	600 W / 600 W	600 W / 500 W / 600 W
Magnetic Low Voltage (FWD)	500 VA	500 VA / 500 VA	500 VA / 500 VA / 500 VA
EFL	5.5 A	5.5 A / 5.5 A	5 A / 5 A / 5 A
Electronic Low Voltage (ELV)	700 W	600 W / 600 W	600 W / 500 W / 600 W
CFL/LED	450 W	450 W / 450 W	450 W / 450 W / 450 W

Legrand reserves the right to change specifications without notice.

NOTE: *The dimmer ships in forward phase mode to accommodate most load types. For loads that require reverse phase dimming, such as ELV loads, adjust the phase using the app.*



NOTES: *For multi-gang installations, use pliers to break off the device fins.*



faqs

Q: Which wire is the "hot" wire versus the "load" wire?

A: To determine this safely, begin by confirming that power is off to the device location at the circuit breaker. Cap all of the exposed wires in the electrical box, then turn the power back on to the device location. Find your non-contact voltage tester. Place your voltage tester next to each of the wires. The voltage tester should indicate which of the two wires is receiving power from the circuit box (refer to the voltage tester's user manual for details on operation). The "hot" wire is the powered wire.

To safely complete your wiring, turn off power at the circuit breaker until the device is secured into the wall.

faqs

Q: Something is going on with my device connection. Is it possible to reset my device?

A: Yes. To reset your device to factory settings, press and hold the top of the paddle for 15 seconds.

If you are still experiencing connection issues, refer to the “faqs” on page 28 & the “faqs” on page 30 for additional options.

faqs

Q: My Legrand Home device failed to connect to the Apple Home app. What can I do?

A: Perform the following actions to test your connectivity:

- Make sure your accessory is powered on.
- If you have a dual band router, connect your phone to a 2.4 GHz Wi-Fi network. Your 2.4 GHz Wi-Fi network must have a different name from your 5 GHz network.
- Confirm the device's amber LED is flashing slowly. If not, press and hold the top of the paddle for 15 seconds to restore factory settings.

- Confirm the device is shown on screen, then scan the setup code located on the device, instruction manual, or inner packaging. If the app displays “Couldn’t add accessory” after scanning the code:

  a. Exit the app. Make sure it is not running in the background.

  b. Restart the app.

  c. Restore the accessory to factory settings.

  d. Add the accessory again.

faqs

Q: My device works normally after restoring factory settings, but it occasionally gets disconnected from my network and cannot be recognized. What do I do?

A: Perform the following actions to test your connectivity:

- Confirm the number of Wi-Fi connected devices is within the wireless network capacity of your router. Otherwise, identify another router to use.
- Reconnect your iOS devices to Wi-Fi and make sure your Wi-Fi signal is strong.
- Wait until the network frees up if your router performs poorly on congested wireless networks.
- Check the router settings to identify any limitations to the number of simultaneous client connections.
- Restart your HomeKit accessory or restore your HomeKit accessory to factory settings, then add your HomeKit accessory to the Legrand Home app.
- Update the firmware to the latest version.

warranty

This product is warranted under normal use against defects in workmanship and materials for as long as you own it. If the product fails due to a manufacturing defect during normal use, return it for a replacement at the store where purchased or contact Technical Support at 1-800-223-4162, option 3.

All replacement requests must include a dated sales receipt (legible copies are acceptable).

Refer to “support” on page 36 for additional contact options.

regulatory information

FCC NOTICE

This device complies with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antennas.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

regulatory information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the transmitter's radiating structure(s) and the body of the user or nearby persons.

This transmitter must not be co-located or operating in conjunction with any other antennae or transmitter. The antennas used for this transmitter must be installed to provide a separation distance of at least 0.5 cm from all persons and must not be co-located or operating in conjunction with any other antennae or transmitter.

NOTE: *Any changes or modifications to this device that are not expressly approved by the manufacturer will void the warranty and the user's authority to operate the equipment.*

FCC ID: YV8-SA7522

WiFi® is a registered trademark of Wi-Fi Alliance®.

IC NOTICE

This device complies with Industry Canada license-exempt RSS standards. Operation is subject to the following two conditions: (1) this device may not cause interference; and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

RF EXPOSURE STATEMENT

This equipment meets the SAR evaluation limits given in RSS-102 Issue 5 requirements at the minimum separation distance of 15 mm to the human body. Note: Any changes or modifications to this device that are not expressly approved by the manufacturer, will void the warranty and the user's authority to operate the equipment.

IC ID: 9922A-SA7522

Use of the Works with Apple HomeKit logo means that an electronic accessory has been designed to connect specifically to iPod touch, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

support

IF YOU NEED HELP INSTALLING YOUR DEVICE, TALK TO OUR TECHNICAL SUPPORT TEAM:

PHONE: 1-800-223-4162, option 3
8:00 a.m. to 5:00 p.m. EST (M-F)

EMAIL: technical.support-hs@legrand.us

CHAT: https://www.legrand.us/support/onq.aspx
(Click on the icon to open a dialogue box)

notes



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